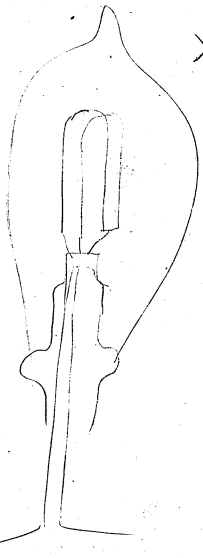
Notebook, N-87-12-10

This notebook covers the period December 1887-January 1892. At the beginning of the book are notes and drawings by Edison, dated December 1887-January 1888, regarding experimental lamps. Most of the remaining pages were used by John Joseph Force to record results of lamp trials. There are also a few notes and drawings by Force relating to lamp experiments. The front cover is labeled "J.J. Force Book ON[E?]." The spine is labeled "42." The pages are unnumbered. Approximately 60 pages have been used.

x E-172 N-87-12-10

Force

J J Force
Dec 10 - 87



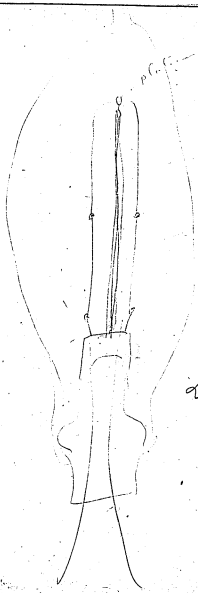
X 1/2 day

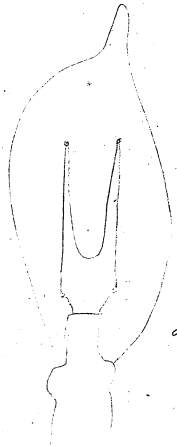
Reg new lamp

Carbons —

new lamp

Dec 19. 87

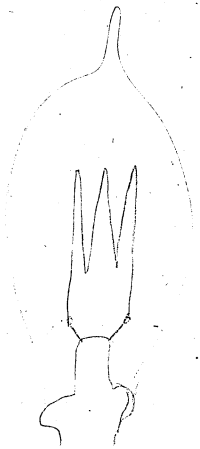

.003
2 mm
7 fr
1/2 dia
Dec 19-87



X

2 16 cp
incandescent
1/2 Lb

Dec 19. 81



1/2 day

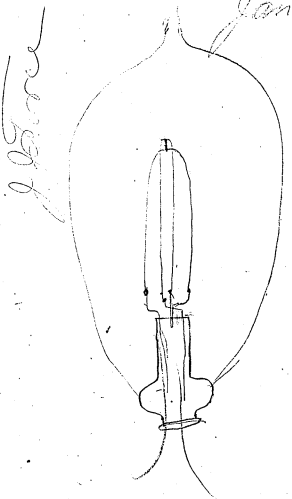
Dec 19-87

Dec 19 87

1/2 dy

X

Jan 11 78



Jan 25-88

Rec. O.K.F. #1
48 carbons
Lamps made 40
carbons broke 8/48

Rec. O.K.F. #2
49 carbons
Lamps made 23
carbons broke 7/30

Rec. O.K.F. #3
58 carbons
Lamps made 25
carbons broke 17/42

Rec. O.K.F. #4
55 carbons
Lamps made 25
carbons broke 8/33

Rec. O.K.F. #5
51 carbons
Lamps made 25
carbons broke 10/35

Rec. O.K.F. #6
28 carbons
Lamps made 25
carbons broke 3/28

Rec. O.K.F. #7
47 carbons
Lamps made 25
carbons broke 6/31

Rec. O.K.F. #8
67 carbons
Lamps made 25
carbons broke 8/33

Rec. O.h.F. #9 This order not received

Rec. O.h.F. #10
63 barbous
Lamps made 25
barbous broke 10
35

Rec. O.h.F. #11
48 barbous
Lamps made 25
barbous broke 16
41

Rec. O.h.F. #12
53 barbous
Lamps made 25
barbous broke 5
30

Rec. O.h.F. #13
43 barbous
Lamps made 24
barbous broke 19
43

Rec. O.h.F. #14
46 barbous
Lamps made 25
barbous broke 5
30

Rec. O.h.F. #15
47 barbous
Lamps made 26
barbous broke 4
30

Rec. O.h.F. #16
45 barbous
Lamps made 25
barbous broke 2
27

Rec. O.h.S. #17
46 barbons
Lamps made 25
barbons broke 2
27

Rec. O.h.S. #18 X
barbons
Lamps made
barbons broke

Rec. O.h.S. #19 X
barbons
Lamps made
barbons broke

Rec. O.h.S. #20 X
barbons
Lamps made
barbons broke

Rec. O.h.S. #21 No orders received from 22 to 32
barbons
Lamps made
barbons broke

Rec. O.h.S. #22 X
barbons
Lamps made
barbons broke

Rec. O.h.S. #23 X
barbons
Lamps made
barbons broke

Rec. O.h.S. #24 X
barbons
Lamps made
barbons broke

Rec. on S. #25 X
Carbons
Lamps made
Carbons broke

Rec. on S. #26 X
Carbons
Lamps made
Carbons broke

Rec. on S. #27 X
Carbons
Lamps made
Carbons broke

Rec. on S. #28 X
Carbons
Lamps made
Carbons broke

Rec. on S. #29 X
Carbons
Lamps made
Carbons broke.

Rec. on S. #30 X
Carbons
Lamps made
Carbons broke

Rec. on S. #31 X
Carbons
Lamps made
Carbons broke

Rec. on S. #32 X
Carbons
Lamps made
Carbons broke

Rec. Ohs #33
29 Carbons
Lamps made 17
Carbons broke 12
29

Rec Ohs #34
19 Carbons
Lamps made 19
Carbons broke 00
19

Rec Ohs # 35
18 Carbons
Lamps made 15
Carbons broke 00
15

Rec Ohs # 36
20 Carbons
Lamps made 20
Carbons broke 00
20

Rec Ohs #37
25 Carbons
Lamps made 25
Carbons broke 00
25

Rec Ohs #38
14 Carbons
Lamps made 14
Carbons broke 00
14

Rec Ohs # 39
32 Carbons
Lamps made 24
Carbons broke 1
25

Rec Ohs # 40
25 Carbons
Lamps made 25
Carbons broke 00
25

Rec Ohd #41
17 barbons
Tamps made 17
barbons broke 00
17

Rec Ohd #42 July 13=88
22 barbons
Tamps made 22
barbons broke 00
22

Rec Ohd #43 July 13=88
49 barbons
Tamps made 24
barbons broke 1
25

Rec Ohd #44 July 13=88
16 barbons
Tamps made 16
barbons broke 00
16

Rec. Ohd. #45 July 13=88
22 barbons
Tamps made 22
barbons broke 00
22

Rec. Ohd. #46 July 13=88
21 barbons
Tamps made 21
barbons broke 00
21

Rec. Ohd. #47 July 14=88
21 barbons
Tamps made 20
barbons broke 1
21

Rec Ohd #48 July 14=88
24 barbons
Tamps made 24
barbons broke 00
24

Rec on st # 49 July 16 = 88
19 Carbons
Lamps made 19
Carbons broke 00/19

Rec on st # 50 July 16 = 88
18 Carbons
Lamps made 16
Carbons broke 2/18

Rec on st # 51 July 16 = 88
55 Carbons
Lamps made 25
Carbons broke 3/28

Rec on st # 52 July 16 = 88
30 Carbons
Lamps made 23
Carbons broke 7/30

Rec on st # 53 = July 16 = 88
45 Carbons
Lamps made 25
Carbons broke 3/28

Rec on st # 55 = July 21 = 88.
21 Carbons
Lamps made 14
Carbons broke 7/21

Rec on st # 56 = July 21 = 88
38 Carbons
Lamps made 10 / 25
Carbons broke 3/38

Rec. ONF. #57 July 21 = 88
42 carbons
Lamps made 25
carbons broke 4
29

Rec. ONF. no 61 Sep 4 = 88
23 Carbons.
Lamps. Made. 22
Carbons. Broke 01
23

Rec. ONF. #58 Aug 2 = 88
16 carbons
Lamps made 16
carbons broke 00
16

Rec. ONF. no 62 Sep 4 = 88
24 Carbons.
Lamps. Made. 24
Carbons. Broke 00
24

Rec. ONF. #59 Aug 2 = 88
42 carbons
Lamps made 21
carbons broke 6
27

Rec. ONF. no 63 Sep 4 = 88
23 Carbons.
Lamps. Made. 23
Carbons. Broke 00
23

Rec. ONF. no 60 Sep 4 = 88
22 Carbons.
Lamps. Made. 22
Carbons. Broke 00
22

Rec. ONF. no 64 Sep 26 = 88
8 Carbons.
Lamps. Made. 7
Carbons. Broke 1
8

Rec. ONF. no 65
19 CarbOns.
Lamps. MADE, 19
Carbons. BROKe 00/19

Sep 4 = 88

Rec. ONF. no 66
20 CarbOns.
Lamps. MADE, 00
Carbons. BROKe 00/20

Sep 4 = 88

Rec. ONF. no 67
70 CarbOns.
Lamps. MADE, 25
Carbons. BROKe 2/27

Oct 20 = 88
good Lamps made up to this order 1124
Broken Carbons up to this order 1184 carb Rec'd 198

Rec. ONF. no 68
43 CarbOns.
Lamps. MADE, 25
Carbons. BROKe 00/25

Nov 3 = 88

Rec. ONF. no 69
45 CarbOns.
Lamps. MADE, 25
Carbons. BROKe 1/26

Nov 5 = 88

Rec. ONF. no 70
26 CarbOns.
Lamps. MADE, 26
Carbons. BROKe 00/26

Nov 12 = 88

Rec. ONF. no 71
24 CarbOns.
Lamps. MADE, 23
Carbons. BROKe 01/24

Nov 12 = 88

Rec. ONF. no 72
26 CarbOns.
Lamps. MADE, 26
Carbons. BROKe 00/26

Nov 12 = 88

Rec. ONF. no 73
25 CarbOns.
Lamps. MADE, 25
Carbons. BROKe 00/25

Nov 19 = 88

Rec. ONF. no 74
24 CarbOns.
Lamps. MADE, 24
Carbons. BROKe 00/24

Nov 27 = 88

Rec. ONF. no 75
21 CarbOns.
Lamps. MADE, 21
Carbons. BROKe 00/21

Dec 4 = 88

Rec. ONF. no 76
24 CarbOns.
Lamps. MADE, 24
Carbons. BROKe 00/24

Feb 20 = 89

Rec. ONF. no 77
24 CarbOns.
Lamps. MADE, 24
Carbons. BROKe 00/24

Feb 20 = 89

Rec. ONF. no 78
18 CarbOns.
Lamps. MADE, 18
Carbons. BROKe 00/18

Feb 20 = 89

Rec. ONF. no 79 Feb 20 = 89
23 Carbons.
Lamps. MADE, 22
Carbons. BROKE 1/23

Rec. ONF. no 80 Feb 20 = 89
23 Carbons.
Lamps. MADE, 22
Carbons. BROKE 1/23

Rec. ONF. no 81 Nov 2 = 89
49 Carbons.
Lamps. MADE, 19
Carbons. BROKE 1/20

Rec. ONF. no 82 Nov 2 = 89
39 Carbons.
Lamps. MADE, 19
Carbons. BROKE 7/26

Rec. ONF. no 83
Carbons.
Lamps. MADE,
Carbons. BROKE

Rec. ONF. no 84
Carbons.
Lamps. MADE,
Carbons. BROKE

Rec. ONF. no 85
Carbons.
Lamps. MADE,
Carbons. BROKE

Rec. ONF. no 86
Carbons.
Lamps. MADE,
Carbons. BROKE

Rec. ONF. no 87
Carbons.
Lamps. MADE,
Carbons. BROKE

Rec. ONF. no 88
Carbons.
Lamps. MADE,
Carbons. BROKE

Rec. ONF. no 89
Carbons.
Lamps. MADE,
Carbons. BROKE

Rec. ONF. no 90
Carbons.
Lamps. MADE,
Carbons. BROKE

Rec. ONF. no 91
Carbons.
Lamps. MADE,
Carbons. BROKE

Rec. ONF. no 92
Carbons.
Lamps. MADE,
Carbons. BROKE

No 1 F Lamps Made Aug 7 = 90
2 Lamp Made Carbons dip in Syrung asphalt + Turpentine dissol Carbons dip twice
75 Ker Turpentine 25 Syrung Asphalt

No 2 F Aug 8 = 90
2 Lamps made Carbons dip in Syrian + Turpentine 3 first in Syrian + Turpentine next in Chloride Sulphur + Kerosene proportion 20 drops of Chloride Sulphur 4 drams of Kerosene mixed to gether

No 3 F Aug 8 90
Same as No 2 except wash in first Kerosene after comeing out of the chloride Sulpher and Kerosene

No 4 = F Aug 8 = 90
2 Lamps made clamp and platinum wire covered with Syrian asphalt dissolve in Turpentine Covered very heavy but didnot come off of clamp but discolored up near clamps Syrian 25 Turpentine
No 5 = F Lamps Made
2 Carbon dip 3 times in Solution of 15 grams of Huffmann Violet 5 grams of Aniline Violet 15 grams of Absolute Alcohol

No 6 = F Aug 11 = 90
2 Lamps Made Carbons dip in Violet Linseed Oil 3 times

No 7 = F Aug 11 = 90
1 Lamp Made platinum covered all up to seal with on inside part with Clamp Material
No 9 Lamp Arc

No 8=F Aug 15=90
1 Lamps Made clamp & platinum wire covered all up to seal with clamp Material then let dry and covered with Syrian 50 parts turpentine
(No) Lamp Arc

No 9 F Aug 15=90
2 Lamps Made dip in concentrated Solution of Sugar and water Carbons dip twice 180 grams of Water 300 grams of Sugar

No 10=F Aug 15=90
2 Lamps made dip in concentrated Solution of water Sugar Let dry then dip in 25 Syrian 75 Turpentine 180 grams of water 300 grams of Sugar } 8 in Sugar water 2 in Syrian Turpentine

No 11=F Aug=15=90
2 Lamps Made Dip in Sugar Lime Solution Carbon dip twice 180 grams of water 300 grams of Sugar this order Light up the bulb a very pretty blue

No 12=F Lamps Made 3 Aug 23=90
Carbons dip 3 times in Solution of Aniline Orange 5 grams of Orange 30 grams of Absolute alcohol
1 Lamp Spotted

No 13=F Lamps Made 3 Aug 23=90
Carbons dip 3 times in Solution of Aniline Red 5 grams water 10 grams absolute alcohol 15 grams) Lamps run off with 6 Lamps connected in Series

No=14=F Lamps Made 3 Aug 23=90
Carbons dip 3 times in Solution of Hoffmans Violet 10 grams absolute alcohol 20 grams) Lamps run off with 6 Lamps connected in Series

No 15=F Lamps Made 3 Aug 23=90
Carbons dip 3 times in Solution of Aniline Violet 5 grams Absolute Alcohol 20 grams
1 Lamp Spotted Lamps run off with 12 Lamps connected in Series

No 16=F Lamps Made 3 Aug 23=90
Carbons dip 3 times in Solution of Aniline Chrysoidin 15 grams absolute alcohol 60 grams
this order run off the same as No 15 Order with 12 Lamps connected in Series

No 17=F Lamps Made 3 Aug 23=90
Carbons dip 3 times in Solution of Aniline Sulfuric 10 grams Distilled Water 20 grams

No 18=F Lamps Made 3 Aug 23 =90
Carbons dip 3 times in Solution of Aniline Chloride 5 grams Absolute Alcohol 15 grams

No 19=F Lamps Made 3 Aug 23=90
Carbons dip 3 times in Solution of Black Alk 5 grams Absolute Alcohol 20 grams distilled Water 10 grams
2 Spotted 1 very bad

No 20=F Lamps Made 3 Aug 23=90
Carbons dip 3 times in Solution of Black Sol 5 grams Absolute Alcohol 20 grams distilled Water 20 grams
1 Lamp Spotted

No 21=F Lamps Made 3 Aug 23=90
Carbons dip 3 times in Solution of Gray 5 grams Absolute Alcohol 15 grams distilled Water 35 grams

No 22=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in solution of Fuchsine Crays 5 grams absolute alcohol 20 grams distilled Water 10 grams

No 23=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in Solution of Fuchsine Yellow Shade 10 grams. absolute alcohol 30 grams distilled Water=30 grams 18.1 Gelt. 79½ hours

No 24=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in Solution of Fuchsine Residue #1=3 grams absolute alcohol 30 grams

No 25=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in solution of Yellow Crays 10 grams, absolute alcohol 20 grams distilled Water=20 grams
17.3 Gelt 71½ hour

No 26=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in solution of Meth Violet 3 B= 5 grams, absolute alcohol 20 grams

No 27=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in solution of Acid Green Crays 20 grams= absolute alcohol 15 grams

No 28=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in solution of Yellow Residue 5 grams, absolute alcohol 30 grams, distilled Water 10 grams, 1 Lamp by accident

No 29=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in Solution of Eosine Extra 10 grams, absolute alcohol 20 grams,

No 30=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in solution of Safranine 5 grams Absolute alcohol 40 grams

No 31=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in Solution of Pink Erythrosine Extra 5 grams, absolute alcohol 20 grams, 1 Lamp Spotted

No 32=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in Solution of Aniline 685= 5 grams, absolute alcohol 20 grams, 1 Lamp Spotted

No 33=H Lamps Made 3 Aug 23=90
Barbous dip 3 times in Solution of Napsoline 684= 000 7 5 grams, absolute alcohol 20 grams,

No 34=F Lamps Made 3 Aug 23= 90
Barbous dip 3 times in Solution of Blue Ethyle 20 grams Absolute alcohol 15 grams,
17.9 Gelt 71 3/4 hours

No 35=F Lamps Made 3 Aug 23=90
Barbous dip 3 times in Solution of Brown 5 grams absolute alcohol 20 grams, distilled Water 10 grams

No 36 F Lamps Made Sept 12-90
4 Lamps Made ~~with~~ with Huffmann Voilet and Aniline Voilet on platinum wire just ~~off~~ below the clamps in billiballs

No 37=F Lamps Made Sept 12 = 90
3 Carbons dip 3 times in Huffmann Voilet and Aniline Voilet lamp run solid then 110 Volts put on at once

No 38=F Lamps Made ~~Sept~~ 13=90
1 Carbon dip 3 times in Huffmann Voilet Aniline Voilet lamp run solid then 110 Volts put on at once then lamp run off regular style bulb burnt out with

No 39=F Lamps Made Sept 13=90
1 Carbon dip 3 times in Huffmann Voilet and aniline Voilet lamp run. Off regular style bulbs burnt out with carbon burner

No 40=F Lamps Made Sept. 23=90
3 Duplicate of No 5 Carbon dip in Solution of Huffmann Voilet, 15 grams, Aniline Voilet 5 grams, 15 grams of absolute alcohol

No 41=F Lamp Made Sept. 23=90
2 Carbons dip 3 times in Solution of Huffmann Voilet 15 gr. Aniline Voilet 5 gr. absolute alcohol 15 gr. and then 3 times in Solution No 23

No 42=F Lamps Made Sept. 23=90
2 Carbon dip 3 times in Solution of Huffmann Voilet 15 gr Aniline Voilet 5 gr. Absolute alcohol 15 gr and then No 23. 3 times and then in Solution No 31. 3 times

No 43=F Lamps Made Sept 23=90
2 Carbons let stand in Chloride Bromine 1/2 hour & then dip ~~3 times~~ in Huffmann Voilet 15 gr. aniline Voilet 5 gr. absolute alcohol 15 gr.

No 44=F Lamps Made Sept 23=90
2 Carbons let stand in Chloride Bromine 1/2 Hour & then dip 3 times in Solution No 23.

No 45=F Lamps Made Sept 23=90
2 Carbons let stand in chloride Bromine 1/2 Hour & then dip 3 times in Solution of 25 parts of Syrian Asphalt. 75 parts of Turpentine

No 46=F Lamps Made Sept 24=90
2 Carbons let soke in chloride Iodine 1/2 Hour & then dip 3 times in Syrian Asphalt 25 parts, turpentine 75 parts

No 47=F Lamps Made Sept 24=90
2 Carbons let soke in chloride Iodine 1/2 Hour & then dip 3 times in Solution No 5

No 48=F Lamps Made Sept 24=90
2 Carbons let soke in chloride Iodine 1/2 Hour & then dip 3 times in Solution No 23

No 49=F Lamps Made
2 Carbons let soke in chloride Iodine 1/2 Hour

X

No 50 = F. Lamps Made Sept 24 = 90
1 carbons let soke in chloride Bromine 1/2 Hour

No 51 = F. Lamps Made Sept 26 = 90
3 carbons dip 3 times in No 5 Solution and then let stand in chloride Iodine 1/2 Hour
40 drops 2 oz of Kerosene

No 52 = F. Lamps Made Sept 26 = 90
3 carbons dip 3 times in No 5 Solution and then let stand in chloride Bromine 1/2 Hour
40 drops 2 oz of Kerosene

No 53 = F. Lamps Made Sept 26 = 90
2 carbons dip 3 times in No 23 Solution and then let stand in chloride Bromine 1/2 Hour
40 drops 2 oz of Kerosene

No 54 = F. Lamps Made Sept 26 = 90
2 carbons dip 3 times in No 23 Solution & then stand in Chloride Iodine 1/2 Hour
40 drops 2 oz of Kerosen

No 55 = F. Lamps Made Sept 26 = 90
2 carbons dip 3 times in Solution 25 parts Syrian Asphalt 75 parts turpentine & then let stand in chloride Bromine 1/2 Hour
Chloride Bromine 1/2 Hour Kerosene 2 oz

No 56 = F. Lamps Made Sept 27 = 90.
2 carbons dip 3 times in Solution 25 parts Syrian Asphalt 75 parts turpentine & then let stand in chloride Iodine 1/2 hour chloride Iodine 40 drops 2 oz of Kerosene

No 57 = F. Lamps Made Sept 29 = 90
5 carbons dip 1 once in Solution No 5 or Huffmanns Violet 15 gr. Aniline Violet 5 gr Absolute alcohol 15 gr

No 58 = F. Lamps Made Sept 29 = 90
5 carbons dip 2 times in Solution No 5 or Huffmanns Violet 15 gr Aniline Violet 5 gr Absolute alcohol 15 gr

No 59 = F. Lamps Made Sept 29 = 90
4 carbons dip 3 times in Solution No 5 Duplicate of No 5 Order
1 Lamp broken in Running

No 60 = F. Lamps Made Oct 1 = 90
3 carbon coated once with Fluorescein put on with small camel hair brush
Fluorescein & Methel alcohol

No 61 = F. Lamps Made Oct 1 = 90
3 Carbon coated once with Propionline & Distillect Water

No 62 = F. Lamps Made Oct 1 = 90
3 Carbon coated once with Extract Rhatany dissolve in warm Distilled water put on with small camel hair brush ~~in 50 cc~~ of air ~~ohm light~~ & ~~also 50 cc of air~~ ohm arc

No 63 = F. Lamps Made Oct 1 = 90
3 Carbon coated once with Litmus dissolve in warm Distilled Water put on with small Camel hair brush ~~in 50 cc~~ of air ohm light

No 64=F Lamps made Oct 1=90
2 Carbons coated once with pure Carmine dissolve in Methul Alcohol put on with Camel hair brush put on 50 feet of aborsetin light one Lamp in Clamp order Exhausting

No 65=F Lamps made Oct 1=90
2 Carbons coated once with Autrachinon Odorin Supo this is. N.G.

No 66=F Lamps made Oct 1=90
2 Carbon coated once with Extract Aloes Cape dissolved in Methul alcohol put on with Camel hair Brush

No 67=F Lamps made Oct 2=90
3 Carbon coated with Extract Logwood Guttanar dissolve in warm Distilled Water put on with Small Camel hair Brush

No 68=F Lamps Made Oct 2=90
2 Carbons coated with Extract Logwood Campeach Office dissolved in Methul Alcohol put on with Small Camel hair brush

No 69=F Lamps made Oct 2=90
2 Carbons coated with Resorcin B.P. Kraull dissolve in Methul alcohol put on with Small Camel hair brush

No 70=F Lamps made Sept 6=90
3 Lamps made with 3/110 platinum wire put in with Copper wire put on top for carbon to sit on platinum wire about 1/8 Long this is in Sun's platinum wire

No 71=F Lamps made Oct 9=90
3 Carbons dip once in solution of Sulphocarbiefurfiroline

No 72=F Lamps Made Oct 22=90
3 Lamps with platinum wire 3000. Lamps exhausted up to 120 Volts inclose in a tin box with a gass burner in it heat the Lamp. Lamps burnt on lamp for 10 Minutes at a 120 Volts

No 73=F Lamps Made Oct 22=90
3 Lamps with platinum wire 5000. Lamps exhausted up to 120 Volts inclose in a tin box with a gass burner in it heat the Lamp. Lamp burnt on lamp for 15 Minutes at a 120 Volts

No 74=F Lamps Made Oct 24=90
2 Lamps made with 3/000 platinum wire Lamps exhausted in regular way on 110 Volts & burn on the 200 Volts not heat up

No 75=F Lamps Made Oct 24=90
2 Lamps made with 6/000 platinum wire run off in tin oven with gas burner to heat up Lamp in side of box Lamp run of in regular style

No 76=F Lamps Made Nov 17=90
3 Lamps made with 3 wires in the center one go all the way through to the top of bulb & carbon connect with the middle wire at top of carbon

No 77=F Lamps Made. Nov 17=90
3 Lamps made with 3 wires in center wire covered with small glass tubing up nearly to top of carbon & then Carbon connected on wire at the top of carbon

No 78=F Lamps Made Nov 18=90
3 Lamps Made with New clamp Material
Pyridine chem pure Plumbago
x

No 79=F Lamps Made Nov 18=1890
2 Lamps Made with new clamp material

No 80=F Lamps Made with New clamp material
Dec 26=90 Impurities of Electrosperse Plumbago
& Uranin dioxine in Pyridine Chemical pure
Duplicate of 78 F
x

No 81=F Lamps Made 6 with New clamp material
Dec 26=90 Impurities of Electrosperse Plumbago
& Uranin Dioxine Dioxine in Pyrolaminon
Duplicate of 79=F

No 82 F Lamps Made Jan 22=1891
5 Lamps made Carbons put in Solution of Chloride
Iodine let stand for one 1/2 hour & then put on
Iodide parts & seal in bulb & exhausted duplicate of 79
Lamp broke at the end 2897

No 83 F Lamps Made Jan 22=1891
5 Lamps made Carbons put in Solution of Chloride Iodine
let stand for 1 1/2 hour & then put on Iodide parts & seal
in bulb & exhausted 1 broke by accident

No 84 F Lamps Made Jan 27=1891
5 Lamps made Carbons put in Solution of Chloride Iodine
let stand for 18 hours & then put on Iodide parts & seal
in bulb & exhausted

No 85 F Lamps Made Jan 24=1891
10 Lamps made up regular Style Carbons Iodide parts
bulbs very thin all received from Lamp Company
Carbons put on Iodide parts seal in exhausted regular
Style

No 86 F Lamps Made Feb 17=1891
10 these Lamps was received from Lamp co to be
run off & put up at 720 for life test lamps
in the Balance of some Howell test ups here
for to be run in Circuit 2276 up to 2281

No 87 F Lamps Made Feb 17=1891
5 Lamps run off on No 8 Pump

No 88 F Lamps Made Feb 17=1891
5 Lamps run off on No 15 Pump

No 89 F Lamps Made Feb 26=1891
5 Lamps exhausted with no
Phosphous in cup

No 90 F Lamps Made Feb 26=1891
5 Lamps made & exhausted with
Phosphous in cup but tube on Lamp
very short cut off just below the contraction
first throughout to put in cup or to exhaust

No 91 F Lamps Made Feb 26=1891
7 Carbons heat in oven up to 450 degrees
Fahrenheit & then quickly dip in Iodine
let stay for one hour & then put on
Iodide part & seal in bulb & exhausted

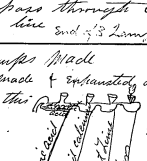
92 Ft Lamps Made 4/29/91
12 Carbons put in solution of Chloride Iodine 1½ Hand for 5 Minutes + then put on Guadeport + seal in bulb + exhausted
6 Lamps Life of Ave 738½ Regulator

93 Ft Lamps made 4/30/91
12 Carbons put in solution of Chloride Iodine 1½ Hand for 15 Minutes + then put on Guadeport seal in bulb + exhausted regulator
6 Lamps Ave. Life 1878½

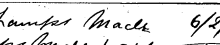
94 Ft Lamps made 5/21/91
5 Cold water kept running around the Lamp in another bulb surrounding the Lamp
End of 3 Lamps Life 1426

95 Ft Lamps Made 5/21/91
5 These Lamps exhausted regular but current pass through a condenser direct across the line
End of 3 Lamps Life 1843

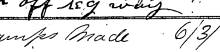
96 Ft Lamps Made 5/29/91
4 Lamps made + exhausted on phosphor cups shape of this and contains three Chimacles
End of 3 Lamps Life 1492



97 Ft Lamps Made 6/2/91
4 Lamps made + exhausted on cups like this and run off 18 g way
End of 3 Lamps Life 1466



98 Ft Lamps Made 6/3/91
4 Lamps made + exhausted on cups like this and run of in 18 g way



99 Lamps Made 1/6/92
8 These Lamps was made from some New Clamp Material Edison brought in for me to try one of them gave of blue on cup + bulb discolored of from clamp the clamp material was wiped up with Chloroform Ave life 1560 Hours

100 Ft Lamps Made 1/7/92
5 Lamps made + sent to test Room these Lamps was made with some new clamp material which Mr Edison brought to me for me to try this clamp material was wiped with Plumbago + the Liquid use was Chloroform + the other material in 9 do not know what for Mr Edison brought it in to my Room for me to.

try this order was not burnt off in clamp so for this reason the bulb discovered right of from clamp but work good on pump about the same as regulars & give of blue from clamp Ave life 750 Hours

101. F 1/7/92

This order is a Duplicate of Order #100 except Clamps was burnt off in fire run a bout the same on pump as order #100 did & give of blue from clamp but bulb did not discovered Lamp Made 5 Lamps sent to test Room 4: 1 crack in seat Ave life 400 Hours

102 F Lamps made 12 1/13/92

Lamps sent to test Room 9
Lamp Exhausted 10: 1 Spoiled
this order is a Duplicate of order No 100 F except M B carbons use. run same as regulars & give off about the same blue from clamp as regulars

103 F Lamps Made 12 1/13/92

Lamps sent to test Room 10
Carbons broke 2
This order is M B carbons mounted on old style Insidepart with Platinum wire seal in all the way no copper wire use ~~for~~ in Vacuum
These Lamps was seal in by Hand

104 F Lamps made 12 1/15/91

Lamps sent to test room 10. Due put in ~~for~~ for socketing.
This order run very nice on pumps. no flue on clamp & carbons nice and even
This order was made from M. B.
Carbons on machine

Edison Jan 3 = 1890

Large Lamp Bulb 8 inches in diameter

Rings of Platinum wire 0035 diameter

of large ring 1½ inches Small ring

7/8 Copper wire leads from ring up

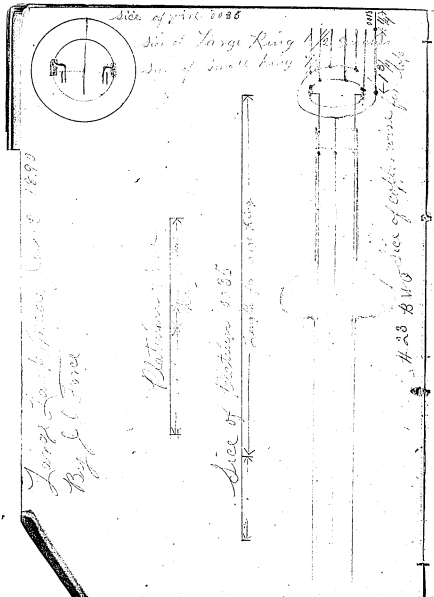
to carbons 23 B W G Length 1¾ Platinum

¼ by 0.0018 Number of carbons mounted

on sunderpart 8 = 32 cp carbons

Copper wire leading to rings of platinum

20 B.W.G



Length 32

#. 1 Treated Carbons Edison Special
#1 Lamps made 5
No 2 Lamps made 6
#. 2 Not Treated Edison Special
this order is Fessenden Square carbons
Feb 20 - 89

This is the Length
for Straight carbons
to be cut

This is the Length
for the Horseshoe
Carbons to be cut

This Line is half length of a 16
~~Carbon~~ carbon